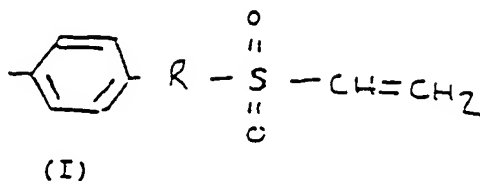


## 1 CLAIMS

2  
3 1. A polymer comprising a side chain of formula I:



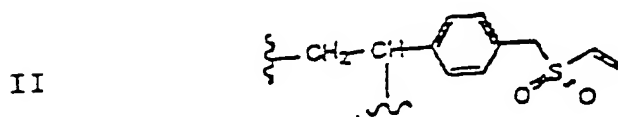
wherein group R is an alkyl, aryl, oxyalkyl or oxyaryl linker group.

2. A polymer as claimed in Claim 1 having a backbone comprising an ethylene grouping which is attached to the side chain.

3. A polymer as claimed in either one of Claims 1 and 2 wherein group R is a C<sub>1-10</sub> alkyl or oxyalkyl group.

4. A polymer as claimed in Claim 3 wherein group R is a C<sub>1-6</sub> alkyl group.

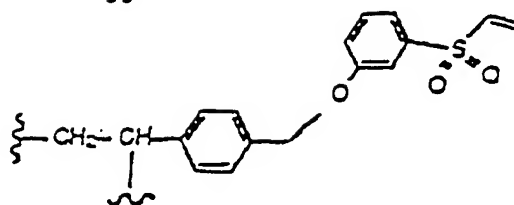
5. A polymer as claimed in Claim 4 wherein said side chain is of formula II:



wherein  $\sim\text{CH}_2\text{---}\overset{|}{\text{CH}}\sim$  is part of the backbone of the polymer.

6. A polymer as claimed in either one of Claims 1 and 2 wherein said side chain is of formula III:

III



wherein  $\sim\text{CH}_2-\overset{|}{\text{CH}}\sim$  is part of the backbone of the polymer.

7. A polymer as claimed in any one of Claims 1 to 6 in the form of a resin suitable as a support for solid phase chemical reactions.
8. A method of producing a polymer as claimed in any one of Claim 1 to 6 wherein a Merrifield resin is reacted to replace the chlorine atom thereof with a sulphur containing group which is subsequently oxidised to yield a vinyl sulphone moiety of formula I.
9. A method of producing a solid-phase reactant for a solid-phase chemical reaction, said reactant comprising a complex of a substrate moiety and a resin comprising a polymer as claimed in any one of Claims 1 to 7, wherein said complex is produced by reacting a precursor substrate with a functional group on the resin.
10. A method of chemical synthesis involving a chemical reaction wherein one of the substrates of said reaction is in the form of a solid-phase complex with a resin comprising a polymer as claimed in any one of Claims 1 to 7.
11. A microreactor comprising a resin material as a support matrix for a solid-phase chemical reaction, wherein said resin material comprises a polymer as claimed in any one of Claims 1 to 7.